

~~location and means to decompress said particular program for use by the user before or after storage, which use can include display of a particular program including at least some of said substantive displayable information.~~

Claim 2. I claim the access system of claim 1 characterized in that there is one storage medium for storing multiple programs delivered on a schedule over which the user has no control.

Claim 3. I claim the access system of claim 1 characterized in that the programs are stored in a compressed format.

Claim 4. I claim the access system of claim 1 characterized by the addition of program information delivered to and stored at the user's location and means to access said program information.

Claim 5. I claim the access system of claim 4 characterized by the addition of data manager means to allow user to access the program.

~~Claim 6 (Fifth amendment). I claim a system having multiple programs delivered in a compressed form on [a] one or more delivery media together with program identification data to a user at a given user location,~~

~~at least one of said multiple programs including at least some substantive displayable information [other than~~

~~ASCII text] that may be distinct from a listing of the program identification data,~~

the system including:

means at the given user location to record program identification data for the multiple programs,

means at the same given user location to access the recorded program identification data for the multiple programs, means at the same given user location to process the recorded program identification data to allow selective access to at least one of the multiple programs,

and means for the user to use said at least one of the multiple programs, which use of such programs can include display of the program including said at least some ~~substantive displayable information (other than ASCII text)~~.

Claim 7. I claim the system of claim 6 characterized in that the multiple programs and program identification data are delivered contemporaneously and by the addition of means to delay the programs to allow processing of the program identification data.

Claim 8. I claim the system of claim 6 characterized by the addition of data manager means to process the program identification data.

Claim 9. I claim the access system of claim 6 characterized by the addition of data manager means to allow the user to access the programs.

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~~Claim 10 (Fifth amendment). I claim an improved system for delivering multiple programs in a compressed form via [a] one or more delivery [channel] channels from a site to a particular user's location without the particular user's control,~~

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~~at least one of said multiple programs including at least some substantive displayable information [other than ASCII text] that may be distinct from a listing of the programs allowing access, storage, and/or retrieval thereof,~~

~~said improvement including:~~

~~the addition of means to store at least certain of the multiple programs in compressed form at the particular user's location and means at the particular user's location to selectively access and decompress the programs at that location respectively,~~

~~said access including displaying the programs, which displaying can include the program including said at least some substantive displayable information [other than ASCII text].~~

~~Claim 11. I claim the access system of claim 10 characterized in that said means to store the programs includes an optical storage medium.~~

~~Claim 12. I claim the access system of claim 10 characterized in that said means to store the programs includes computer memory.~~

Claim 13. I claim the access system of claim 10 characterized in that the programs are compressed in a MPEG type form and means to selectively decompress said MPEG type signals.

Claim 14 (Fifth amendment). I claim an access system having a storage capability with a limited capacity, the improvement including:

means to store materials in the storage having a limited capacity, overwrite means to automatically overwrite previously stored material including at least some material which has not been previously accessed based on determinable criteria developed from a known set of priorities,

said known set of priorities which includes at least one priority other than [the currency] updating of [the] existing materials.

Claim 15. I claim the system of claim 14 characterized in that said overwrite means includes consideration of available storage.

Claim 16. I claim the system of claim 14 characterized in that said overwrite means includes consideration of the time the program was stored.

Claim 17. I claim the system of claim 14 wherein there are multiple users having a priority and characterized in that said overwrite means includes consideration of the multiple user's priority.

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Claim 19 (Fifth amendment). I claim an access system having a storage capability for programs, the programs subject to an access, storage, and/or retrieval date, the improvement including:

means to store programs in the storage area, means to automatically allow access for storage of programs in previously utilized storage area upon occurrence of a certain event other than the accessing of the stored program in such storage area, with at least one of said programs including at least some of said substantive displayable information [other than contained in ASCII text].

Claim 20. I claim the access system of claim 19 characterized in that said certain event is the arrival of a certain time subsequent to the time of a particular program's storage.

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Claim 21 (four amendments). I claim an access system having an ability to reproduce an accessible program having frequency related information with a certain intended run time of presentation, for a user requiring a different run time of presentation,

the improvement including:

means to select the accessible program from multiple programs and means to alter the frequency of the frequency related information to automatically compensate for the different run time of presentation and thus the certain run time of presentation of the accessible program to the different run time.

Claim 22. I claim the access system of claim 21
wherein the different run time is determined by the user's
interruption of access to the programs.

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~~Claim 23 (first amendment) I claim the access~~
system of claim 22 characterized in that said accessible
program would normally terminate at a time certain and
characterized in that said automatic means alters
the different run time so as to terminate said accessible
program at the same time as said time certain.

Cancel claim 24.

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~~For display, said display which can include display of the program including said at least some substantive displayable information [other than ASCII text].~~

Claim 26. I claim the system of claim 25 characterized in that program identification data is also delivered for those programs delivered without a given user's request,

~~the multiple programs and program identification data being delivered substantially contemporaneously and by the addition of means to delay the programs to allow processing of the program identification data.~~

Claim 27. I claim the system of claim 26 characterized by the addition of data manager means to process the program identification data.

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~~Claim 28 (Three amendments). I claim an access system having a storage area for programs having substantive displayable information, the programs subject to access, storage, and/or retrieval by a listing,~~

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~~the improvement including:~~

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~~means to record at least part of a given program having substantive displayable information in the storage area,~~

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~~means to access at least part of said given program having substantive displayable information from the storage area so as to select reproduction thereof and~~

means to record programs having substantive displayable information at the same time as said reproduction which recording can include the remainder of said given program and/or another program in the storage area.

Claim 29. I claim an access system having a decompression circuit and [an] a frequency artifact producing circuit, the improvement of [an] a frequency artifact modifier circuit.

means to pass programs through the decompression circuit and then through said frequency artifact modifier circuit, and means to selectively bypass the frequency artifact modifier circuit when the frequency artifact producing circuit is inactive.

Claim 30. I claim the access system of claim 29 characterized in that the decompression decoder is a MPEG type decoder.

Claim 31 (First amendment). I claim the access system of claim 29 characterized in that the artifact modifier circuit is a frequency converter [means].

Claim 33 (Four amendments) I claim an access system having multiple channels of substantive displayable information and access information for delivery of programs to a remote location.

~~a data manager, said data manager being located at
said remote location,~~

~~said data manager having a memory for storing the
access information relative to the delivered information
including information relative to at least one delivered
upcoming program,~~

~~and means for said data manager to selectively
control access to the substantive displayable information on
the multiple channels for presentation of said programs which
can include the display of said at least one delivered
upcoming program at said remote location.~~

Claim 34. I claim the access system of claim 33
characterized by the addition of a data storage for the
channels of information.

Claim 35. I claim the access system of claim 33
characterized by the addition of program information relative
to the multiple channels of information and means for said
data manager to utilize such program information.

Claim 36. I claim the access system of claim 33
characterized by the addition of other services and means for
said data manager to access said other services.

~~Claim 37 (Fourth amendment). I claim an improved
access system for a particular user to access multiple
programs delivered in compressed form via [a] one or more
delivery [channel] channels,~~

at least one of said multiple programs including at least some substantive displayable information [other than ASCII text],

 said access system including program information delivered separate from said substantive displayable information to the particular user at the given location,

 means for recording multiple programs in a compressed format in a data storage medium at the given location,

 means at the given location for the particular user to access said program information and to select a particular program for presentation at the given location,

 and means to decompress said particular program for display which can include the display of said at least some substantive displayable information [other than ASCII text].

Claim 38. I claim the access system of claim 37 characterized by the addition of data manager means to allow the user to access the program.

Claim 39 (Fourth amendment). I claim a system having multiple programs transmitted in a compressed form via a transmission media with program identification data transmitted to a particular user at a given location, at least one of the programs including at least some substantive displayable information [other than ASCII text] that may be other than the program identification data,

~~the system including means at the given location for the particular user to directly access the program identification data,~~

~~means to delay the programs to allow processing of the program identification data, means to process the program identification data at the given location,~~

~~and data manager means at the given location to process the program identification data and to allow the particular user to selectively access the programs at the given location, which access can include the display of said at least some substantive displayable information [other than ASCII text],~~

~~Claim 40 (Fourth amendment). I claim an improved system for a multiplicity of programs transmitted in a compressed form on [a] one or more transmission [channel] channels,~~

~~a listing of the programs to allow the access, storage, and/or retrieval thereof also being transmitted,~~

~~characterized by the addition including:~~

~~means to store said multiplicity of programs in their compressed form at a given location,~~

~~at least one of said multiplicity of programs including at least some substantive displayable information [other than ASCII text],~~

~~said means to store the programs including an optical storage medium which storage can include said at least some substantive displayable information,~~

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~~and means to selectively access a program using the listing and decompress the [programs] program from said means to store the programs at said given location[, which storage can include said at least some information other than ASCII text] for display.~~

Claim 41. I claim the access system of claim 40 characterized in that the programs are compressed in a MPEG type form and means to selectively decompress said MPEG type signals.

Claim 42. I claim the access system of claim 40 characterized in that there are a number of sets of multiplicity programs that can be selectively stored.

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~~Claim 43 (Two amendments). I claim an improved access system for substantive displayable programs delivered via one or more delivery channels, a listing of the programs allowing the access, storage, and/or retrieval thereof also delivered.~~

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said access system including:
a program data storage, said program data storage recording at least selected ones of the delivered programs,
a user control, said user control selectively retrieving said selected ones of the delivered program from said program data storage using the listing,
and said program data storage simultaneously recording other selected portions of the delivered programs as

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said selected portion of a substantive displayable program is being selectively retrieved by said user control.

Claim 44. I claim the access system of claim 43 characterized in that said selected portion and at least one of said other selected portions are from the same program.

Claim 45. I claim the access system of claim 43 characterized in that said selected portion and at least one of said other selected portions are from different programs.

Claim 46. I claim the access system of claim 44 wherein the program of which said selected portion is a part, said program has a normal presentation conclusion time from initial retrieval and characterized in that the retrieval of said selected portion can be selectively interrupted by the user for a period,

any retrieval of said selected portion can be accelerated to compensate for said period, and said acceleration allowing the program to end at the normal presentation conclusion time.

Claim 47. I claim the access system of claim 46 wherein the program has a frequency and characterized by a frequency shift means,

and said frequency shift means altering the frequency of any accelerated portion to be substantially equal to the frequency of the program.

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Claim 48 (Third amendment). I claim an improved access system for programs transmitted via one or more transmission channels, and a listing of the programs allowing the access, storage, and/or retrieval thereof.

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 said access system including:

 a data manager, said data manager being located at a particular user's given location,

 a data stream, said data stream passing via a delivery channel for recording in said data manager,

 a user control, said user control allowing access to the data in said data manager using the listing of programs,

 a program data storage, said program data storage recording at least some of one or more of the programs transmitted on the transmission channel without any active selection by the user,

 at least one of said programs including at least some substantive displayable information other than [ASCII text],

 and means for the user at said given location to use [the] data in said data manager to retrieve selected portions of the programs in said program data storage via the listing thereof, which retrieval can include the display of said at least some substantive displayable information [other than ASCII text].

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Claim 49 (First amendment). I claim the access system of claim 48 characterized in that said data stream includes information of upcoming substantive programs.

Claim 50. I claim the access system of claim 48 characterized in that said user control can be selectively programmed to automatically record programs in said program data storage based on the data in said data manager.

Claim 51. I claim the access system of claim 48 characterized in that substantially all of the programs transmitted on a transmission channel are transmitted without any user's control.

Claim 52. I claim the access system of claim 51 characterized in that the programs are substantially continually transmitted.

Claim 53. I claim the access system of claim 48 characterized in that said program data storage can record programs and the user can retrieve a program from said program data storage at the same time.

Claim 54 (One amendment). I claim the access system of claim 48 wherein the program of which said selected portion is a part, has a normal presentation conclusion time from initial retrieval and characterized in that the retrieval of said selected portion can be selectively suspended by the user for a period of time,

any retrieval of said selected portion can be automatically accelerated to compensate for said period of time,

and said acceleration allowing the program to end at the normal presentation conclusion time.

Claim 55. I claim the access system of claim 54 wherein the program has an original frequency and characterized by frequency shift means,

said frequency shift means altering the frequency of any accelerated portion to be substantially equal to the original frequency of the program.

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~~Claim 56 (Third amendment). I claim an improved access system for programs transmitted on one or more transmission channels, said access system including:~~

a data manager, said data manager being located at a particular user's given location,

a data stream, said data stream passing via a delivery channel for access at the direction of said data manager,

a user control, said user control allowing access to the data in said data manager,

a program data storage, said program data storage recording at least some of one or more of the programs transmitted on the transmission channel without any active selection of individual ones of the specific programs by the user,

at least one of said programs including at least some substantive displayable information other than [ASCII text] listing data.

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~~(and select means at said given location for said data manager to use the listing data in said data manager to automatically record selected portions of the transmitted programs in said program data storage, which recording can include said at least some substantive displayable information [other than ASCII text].~~

Claim 57. I claim the access system of claim 56 characterized in that said select means is programmed to discard programs recorded in said program data storage including programs not yet retrieved according to a known set of priorities.

Claim 58. I claim the access system of claim 57 characterized in that said known set of priorities includes the available recording room in said program data storage.

Claim 59. I claim the access system of claim 57 characterized in that said known set of priorities are ranked in an order of preference.

Claim 60. I claim the access system of claim 56 characterized in that said known set of priorities may be changed from time to time.

Claim 61. I claim the access system of claim 55 characterized in that said select means is programmed to record transmitted programs in said program data storage according to a selection algorithm.

Claim 62. I claim the access system of claim 60 characterized in that said selection algorithm includes one or more of consideration of the desirability of the program to the user,

the number of users for a program, the time of the program, the relation of the program to programs previously stored, the content of the program, the particular channel for the program and/or the availability of removable storage.

Claim 63. I claim the access system of claim 61 characterized in that said select means is programmed to discard or record over previously recorded programs in said program data storage including not retrieved programs according to a known set of priorities.

Claim 64. I claim the access system of claim 63 characterized in that said known set of priorities includes the available recording room in said program data storage.

Claim 65. I claim the access system of claim 63 characterized in that said known set of priorities are ranked in an order of preference.

Claim 66. I claim the access system of claim 63 characterized in that said known set of priorities may be changed from time to time.